General Recommendations on Immunization

Montana Immunization
Program
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General Recommendations on Immunization

Recommendations of the Advisory Committee on Immunization Practices (ACIP)



Continuing Education Examination available at http://www.cdc.gov/mmwr/cme/conted.html



U.S. Department of Health and Human Services Centers for Disease Control and Prevention

General Recommendations on Immunization

An ACIP MMWR

- Timing and spacing
- Contraindications and precautions
- Preventing and managing adverse reactions to immunization
- Vaccine administration
- Storage and handling
- Altered immunocompetence
- Special situations
- Vaccination records
- Vaccination programs
- Vaccine information sources

Overview

- Timing and Spacing
 - Antibody containing blood products
 - Different vaccines
 - Doses of the same vaccine
- Contraindications and Precautions
 - Adverse Events vs Adverse Reactions
 - Specific contraindications and precautions
 - Pregnancy
 - Altered Immunocompetence
 - HIV infection
 - Hematopoietic Cell Transplant
- Preventing and Managing Adverse Reactions
 - Risk benefit communication
 - Syncope

Timing and Spacing: Antibodycontaining Blood Products

- Used to restore a needed component of blood
- Provide a passive immune response following disease exposure
- Concurrent administration of antibody containing blood product and vaccine?

Antibody and Live Vaccines General Rule

- Inactivated vaccines are generally not affected by circulating antibody to the antigen
- Live, attenuated vaccines might be affected by circulating antibody to the antigen – an effectiveness concern

Antibody Products and Measles- and Varicella- containing Vaccines

Product given first

Action

Vaccine

Wait 2 weeks before giving antibody

Antibody

Wait at least 3 months before giving vaccine

Interval Between Antibody-containing Products and Measles- and Varicella-containing Vaccines

Recommended intervals between administration of immune globulin preparations and measles- or varicella-containing vaccine

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Product / Indication	Dose, including mg immunoglobulin G (IgG)fkg body weight	Recommended Interval before measies or varicella-containing vaccine administration	
Blood transfusion		•	
- Red blood cells (RBCs), washed	10 mL/kg (negligible IgG/kg) IV	None	
- RBCs, adenine-saline added	10 mL/kg (10 mg lgG/kg) IV	3 months	
- Packed RBCs (hematocrit 65%) ²	10 mL/kg (60 mg lgG/kg) IV	6 months	
- Whole blood (hematocrit 35%-50%) ²	10 mL/kg (80-100 mg lgG/kg) IV	6 months	
- Plasma/platelet products	10 mL/kg (160 mg lgG/kg) IV	7 months	
Botulinum Immune Globulin Intravenous (Human)	1.5 mL/kg (75 mg lgG/kg) IV	6 months	
Cytomegalovirus IGIV	150 mg/kg maximum	6 months	
Hepatitis A IG		•	
- Contact prophylaxis	0.02 mL/kg (3.3 mg lgG/kg) IM	3 months	
- International travel	0.06 mL/kg (10 mg lgG/kg) IM	3 months	
Hepatitis B IG (HBIG)	0.06 mL/kg (10 mg lgG/kg) IM	3 months	
IGIV		•	
- Replacement therapy for immune deficiencies ³	300-400 mg/kg IV	8 months	
Immune thrombocytopenic purpura treatment Measies IG, contact prophylaxis (immunocompromised contact) Postexposure varicella prophylaxis	400 mg/kg IV 400 mg/kg IV 400 mg/kg IV	8 months 8 months 8 months	
- Immune thrombocytopenic purpura treatment	1,000 mg/kg IV	10 months	
Measies IG, contact prophylaxis - Standard (I.e., nonimmunocompromised) contact	0.5 mL/kg (80 mg lgG/kg) IM	6 months	
Monocional antibody to respiratory syncytial virus F protein (Synagis™) ⁴	15 mg/kg (IM)	None	
Rables IG (RIG)	20 IU/kg (22 mg lgG/kg) IM	4 months	
Tetanus IG (TIG)	250 units (10 mg lgG/kg) IM	3 months	
Varicella IG ⁵	125 units/10 kg (60-200 mg lgG/kg) IM, maximum 625 units	5 months	

Appendix A

Spacing of Antibody-containing Products and MMR and Varicella Vaccines

Product

<u>Interval</u>

Washed red blood cells

0 months

Hepatitis A (IG)

3 months

Measles prophylaxis (IG)

6 months

(immunocompetent recipient)

Plasma/platelet products 7 months

Intravenous immune globulin (IGIV)

7-11 months

Products Containing Type-specific or Negligible Antibody

- Palivizumab (Synagis)
 - Contains only monoclonal RSV antibody
 - Does not interfere with live virus vaccination
- Red blood cells (RBCs), washed
 - Negligible antibody content

Exceptions to the General Rule

- Antibody-vaccine spacing recommendations apply specifically to MMR and varicella-containing vaccines
- Does NOT apply to:
 - Zoster vaccine (large amount of virus in the vaccine)
 - Yellow fever, oral typhoid (negligible antibody in the U.S. blood supply)
 - LAIV (viruses change annually)
 - Rotavirus (replication in Gl tract)

Interval Between Doses of Different Vaccines

- Simultaneous administration
- Non-simultaneous administration

Simultaneous Administration General Rule

- All vaccines can be administered at the same visit as all other vaccines
- Exceptions:
 - PCV13 and PPSV23: Give PCV13 first
 - MCV4-D (Menactra only) and PCV13 in asplenic children: Give PCV13 first

Non-simultaneous Administration: Live-vaccine Effectiveness

Combination

Minimum Interval

2 live injected or live intranasal influenza vaccine

4 weeks

All other

None

Spacing of Live Vaccines Not Given Simultaneously

- If 2 live parenteral or intranasal vaccines are given less than 28 days apart, the vaccine given 2nd should be repeated
- Immune response from 1st vaccine interferes with replication of 2nd vaccine
- One <u>exception</u>: yellow fever vaccine and single-antigen measles vaccine

Interval Between Doses of the Same Vaccine

Intervals Between Doses General Rule

Increasing the interval between doses of a multidose vaccine does not diminish the effectiveness of the vaccine

Extended Interval Between Doses

- Not all permutations of all schedules for all vaccines have been studied
- Available studies of extended intervals have shown no significant difference in final titer
- It is not necessary to restart the series or add doses because of an extended interval between doses

Intervals Between Doses General Rule

- Increasing the interval between doses of a multidose vaccine does not diminish the effectiveness of the vaccine
- Decreasing the interval between doses of a multidose vaccine may interfere with antibody response and protection

Appendix A

Recommended and Minimum Ages and Intervals Between Doses of Routinely Recommended Vaccines ^{1,2,3,4}					
Vaccine and dose number	Recommended age for this dose	Minimum age for this dose	Recommended interval to next dose	Minimum interval to next dose	
Diphtheria-tetanus-acellular pertussis (DTaP)-15	2 months	6 weeks	8 weeks	4 weeks	
DTaP-2	4 months	10 weeks	8 weeks	4 weeks	
DTaP-3	6 months	14 weeks	6-12 months	6 months ⁶	
DTaP-4	15-18 months	15 months ⁷	3 years	6 months	
DTaP-5	4-6 years	4 years		_	
Haemophilus influenzae type b (Hib)-1 ^{8,8}	2 months	6 weeks	8 weeks	4 weeks	
Hib-2	4 months	10 weeks	8 weeks	4 weeks	
Hib-3 ⁹	6 months	14 weeks	6-9 months	8 weeks	
Hib-4	12-15 months	12 months			
Hepatitis A (HepA)-1	12-23 months	12 months	6-18 months	6 months	
HepA-2	≥18 months	18 months	_		
Hepatitis B (HepB)-1 ⁵	Birth	Birth	4 weeks-4 months	4 weeks	
HepB-2	1-2 months	4 weeks	8 weeks-17 months	8 weeks	
HepB-3 ¹⁰	6-18 months	24 weeks			
Herpes zoster (HZV) ¹¹	≥60 years	60 years	0-	_	
Human papillomavirus (HPV)-1 ¹²	11-12 years	9 years	8 weeks	4 weeks	
HPV-2	11-12 years (+ 2 months)	9 years (+4 weeks)	4 months	12 weeks ¹³	
HPV-3 ¹³	11-12 years (+ 6 months)	9 years (+24 weeks)			
Influenza, inactivated (IIV)14	≥6 months	6 months ¹⁵	4 weeks	4 weeks	
Influenza, live attenuated (LAIV)14	2-49 years	2 years	4 weeks	4 weeks	
Measles-mumps-rubella (MMR)-116	12-15 months	12 months	3-5 years	4 weeks	
MMR-2 ¹⁶	4-6 years	13 months	<u> </u>		
Meningococcal conjugate (MCV)-1 ¹⁷	11-12 years	6 weeks ¹⁸	4-5 years	8 weeks	
MCV-2	16 years	11 years (+8 weeks)		-	
Meningococcal polysaccharide (MPSV4)-117	7	2 years	5 years	5 years	
MPSV4-2	_	7 years	_		
Pneumococcal conjugate (PCV)-18	2 months	6 weeks	8 weeks	4 weeks	
PCV-2	4 months	10 weeks	8 weeks	4 weeks	
PCV-3	6 months	14 weeks	6 months	8 weeks	
PCV-4	12-15 months	12 months	_		
Pneumococcal polysaccharide (PPSV)-1	_	2 years	5 years	5 years	
PPSV-2 ¹⁹	_	7 years	_	_	
Poliovirus, Inactivated (IPV)-15	2 months	6 weeks	8 weeks	4 weeks	
IPV-2	4 months	10 weeks	8 weeks-14 months	4 weeks	
IPV-3	6-18 months	14 weeks	3-5 years	6 months	
IPV-4 ²⁰	4-6 years	4 years		_	
Rotavirus (RV)-1 ²¹	2 months	6 weeks	8 weeks	4 weeks	
RV-2	4 months	10 weeks	8 weeks	4 weeks	
RV-3 ²²	6 months	14 weeks	1211/10/21/21/20 ——2	1.000,000,000000	
Tetanus-diphtheria (Td)	11-12 years	7 years	10 years	5 years	
Tetanus-diphtheria-acellular pertussis (Tdap) ²³	>11 years	7 years	_	_	
Varicella (Var)-1 ¹⁸	12-15 months	12 months	3-5 years	12 weeks ²⁴	
Var-2 ¹⁶	4-6 years	15 months ²⁵	o-o years	12 WOORS	

Centers for Disease Control and Prevention Epidemiology and Prevention of Vaccine-Preventable Diseases, 13th Edition

April, 2015

Appendix A

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DTaP-3	6 months	14 weeks	6-12 months	6 months ⁶		
DTaP-4	15-18 months	15 months ⁷	3 years	6 months		
DTaP-5	4-6 years	4 years		E-		
Haemophilus influenzae type b (Hib)-1 ^{6,8}	2 months	6 weeks	8 weeks	4 weeks		
Hib-2	4 months	10 weeks	8 weeks	4 weeks		
Hib-3 ⁸	6 months	14 weeks	6-9 months	8 weeks		
Hib-4	12-15 months	12 months		-		
Hepatitis A (HepA)-1	12-23 months	12 months	6-18 months	6 months		

Minimum Intervals and Ages

 Vaccine doses should not be administered at intervals less than the minimum intervals or earlier than the minimum age

When Can Minimum Intervals Be Used?

- Catch-up for a lapsed vaccination schedule
- Impending international travel
- NOT to be used routinely

The "Grace Period"

- ACIP recommends that vaccine doses given up to four days before the minimum interval or age be counted as valid
- Should not be used for scheduling future vaccination visits
- Use for reviewing vaccination records

Use of the "Grace Period"

To schedule a future appointment

NO!

When evaluating a vaccination record

Yes

Patient is in the office or clinic early

Maybe

Use of the "Grace Period"

- Patient is in the office or clinic
 - Patient/parent is known and dependable

Reschedule

Patient/parent is unknown or undependable

Vaccinate

Violations of Minimum Intervals and Minimum Ages

- Grace period may conflict with some state school entry requirements
- Immunization programs and/or school entry requirements may not accept some or all doses given earlier than the minimum age or interval, particularly varicella and/or MMR vaccines
- Providers should comply with local and/or state immunization requirements

Violations of Minimum Intervals and Minimum Ages

- Minimum interval/age has been violated
 - Dose invalid
- The repeat dose should be administered at least a minimum interval from the invalid dose

The "Pediarix Challenge"

- Off-schedule administration could lead to 2 potential invalid doses:
 - Hepatitis B birth dose (HepB1)
 - Pediarix at 2 months (HepB2)
 - Pediarix at 5 months (invalid HepB-age younger than 24 weeks)
 - Pediarix at 6 months (invalid HepB-interval since last dose less than 8 weeks)
- CDC does NOT recommend a 5th dose of Hepatitis B vaccine in this situation

Contraindications and Precautions



Vaccine Adverse Reaction

- Adverse <u>reaction</u>
 - Extraneous effect caused by vaccine
 - "Side effect"

Vaccine Adverse Reaction

- Adverse reaction
- Adverse event
 - Any medical event following vaccination
 - May be true adverse reaction
 - May be only coincidental

Vaccine Adverse Event Reporting System (VAERS)

- Reports from public and private sectors
- Providers should report any clinically significant adverse event that occurs after a vaccine, even if unsure whether or not the vaccine caused the event
- Providers may also report vaccine administration errors
- 1-800-822-7967 or online at www.vaers.hhs.gov

Vaccine Adverse Event Reporting System (VAERS)



- Jointly administered by CDC and FDA
- National reporting system
- Passive depends on healthcare providers and others to report
- Receives ~30,000 reports per year

Types of Vaccine Adverse Reactions

- Local
- Systemic
- Allergic (least frequent)

Vaccine Adverse Reactions

Local

- Pain, swelling, redness at site of injection
- Common with inactivated vaccines
- Usually mild and self-limited

Vaccine Adverse Reactions

- Local
- Systemic
 - Fever, malaise, headache
 - Nonspecific
 - May be unrelated to vaccine

Live, Attenuated Vaccines

- Must replicate to produce immunity
- Symptoms usually mild
- Occur after an incubation period (usually 3-21 days)

Vaccine Adverse Reactions

- Local
- Systemic
- Allergic
 - Due to vaccine or vaccine component
 - Rare
 - Risk minimized by screening

Contraindication

A condition <u>in a recipient</u> which <u>greatly</u> increases the chance of a serious adverse event

Precaution

A condition in a recipient which may increase the chance or severity of an adverse event

OR

May compromise the ability of the vaccine to produce immunity

Contraindications and Precautions

Permanent contraindications

Severe allergic reaction to a prior dose of vaccine or to a vaccine component

Contraindications and Precautions

Permanent contraindications

- Rotavirus vaccines only
 - Severe Combined Immunodeficiency disease (SCID)
 - History of intussusception
- Pertussis vaccines only
 - Encephalopathy not due to another identifiable cause occurring within 7 days of pertussis vaccination

Contraindications and Precautions

Condition	<u>Live</u>	<u>Inactivated</u>
Allergy to component	C	C
Encephalopathy		C
Pregnancy	C	V *
Immunosuppression	C	V
Moderate/severe illness	Р	P
Recent blood product	P**	V

C=contraindication

P=precaution

V=vaccinate if indicated

*Except HPV

**MMR and varicella-containing (except zoster vaccine and LAIV)

Appendix A

Guide to Contraindications and Precautions to Commonly Used Vaccines^{1,*,†} (page 1 of 2)

Vaccine	Contraindications	Precautions	
Hepatitis B (HepB)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component	Moderate or severe acute illness with or without fever Infant weighing less than 2000 grams (4 lbs, 6.4 oz)	
Rotavirus (RV5 [RotaTeq], RV1 [Rotarix])	Severe allergic reaction (e.g., anaphytaxis) after a previous dose or to a vaccine component Severe combined immunodeficiency (SCID) History of infussusception	Moderate or severe acute illness with or without fever Altered immunocompetence other than SCID Chronic gastrointestinal disease ¹ Spina bifida or bladder exstrophy ¹	
Diphtheria, tetanus, pertussis (DTaP) Tetanus, diphtheria, pertussis (Tdap) Tetanus, diphtheria (DT, Td)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component For pertus-is-containing vaccines: encephalopathy (e.g., coma, decreased level of consciousness, prolonged seizures) not attributable to another identificate cause within 7 days of administration of a previous dose of DTP or DTaP (for DTaP); or of previous dose of DTP, DTaP, or Tdap (for Tdap)	Moderate or severe acute illness with or without fever Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of tetanus toxoid-containing vaccine History of Arthus-type hypersensitivity reactions after a previous dose of tetanus or diphtheiat boxoid-containing vaccine defer vaccination until at least 10 years have elapsed since the last tetanus-toxoid containing vaccine: progressive or unstable neurologic disorder (including infantle spasms for DTaP), uncontrolled seizures, or progressive encephalopathy until a treatment regimen has been established and the condition has stabilized For DTaP only: Temperature of 105° F or higher (40.5° C or higher) within 48 hours after vaccination with a previous dose of DTP/DTaP Collapse or shock-like state (e.e., hypotonic hyporesponsive episode) within 48 hours after receiving a previous dose of DTP/DTaP Seizure within 3 days after receiving a previous dose of DTP/DTaP Seizure within 3 days after receiving a previous dose of DTP/DTaP Seizure receiving a previous dose of DTP/DTaP Persistent, inconsolable crying lasting 3 or more hours within 48 hours after receiving a previous dose of DTP/DTaP	
Haemophilus influen- zae type b (Hib)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component Age younger than 6 weeks	Moderate or severe acute illness with or without fever	
Inactivated poliovirus vaccine (IPV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component	Moderate or severe acute illness with or without fever Pregnancy	
Pneumococcal (PCV13 or PPSV23)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component (including, for PCV13, to any diphtheria toxoid-containing vaccine)	Moderate or severe acute illness with or without fever	
Measles, mumps, rubella (MMR) ⁴	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component Known severe immunodeficiency (e.g., from hematologic and solid fumors, receipt of chemotherapy, congenital immunodeficiency, or long-term immunosuppressive therapy or patients with human immunodeficiency virus [HIV] infection who are severely immunocompromised) Pregnancy	Moderate or severe acute illness with or without fever Recent (within 11 months) receipt of antibody-containing blood product (specific interval depends on product)* History of thrombocytopenia or thrombocytopenic purpura Need for tuberculin skin testing*	
Varicella (Var) ⁴	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component Known severe immunodeficiency (e.g., from hematologic and solid humors, receipt of chemotherapy, congenital immunodeficiency, or long-term immunosuppressive therapy or patients with HIV infection who are severely immunocompromised)* Pregnancy Pregnancy	Moderate or severe acute illness with or without fever Recent (within 11 months) receipt of antibody-containing blood product (specific interval depends on product) Receipt of specific antivirals (i.e., acyclovir, famciclovir, or valacyclovir) 24 hours before vaccination; avoid use of these antivirdrugs for 14 days after vaccination.	
Hepatitis A (HepA)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component	Moderate or severe acute illness with or without fever	

Technical content reviewed by the Centers for Disease Control and Prevention

IMMUNIZATION ACTION COALITION Saint Paul, Minnesota • 651-647-9009 • www.immunize.org • www.vaccineinformation.org

Appendix A-28

www.immunize.org/catg.d/p3072a.pdf • Item #P3072a (3/15)

Vaccination During Pregnancy

- Live vaccines should not be administered to women known to be pregnant
- In general, inactivated vaccines may be administered to pregnant women for whom they are indicated
- HPV vaccine should be deferred during pregnancy

Vaccination During Pregnancy

Inactivated vaccines

- Routine
 - Influenza any trimester
 - Tdap 27 to 36 weeks
- Vaccinate if indicated (HepA, HepB)
- Vaccinate if increased risk (all others except HPV)
- Provider discretion (PCV13, Hib, MenB)

Vaccination of Immunosuppressed Persons

- Live vaccines should not be administered to severely immunosuppressed persons
- Persons with isolated B-cell deficiency may receive varicella or zoster vaccine
- Inactivated vaccines are safe to use in immunosuppressed persons, but the response to the vaccine may be decreased

Defining Immunosuppression

Disease ☐ Primary Immunodeficiency Diseases □ Isolated B-cell deficiency □ Combined lymphocyte deficiency (B and T cell) □Complement deficiency ☐Phagocyte deficiency ☐ HIV infection / AIDS ☐ Blood cancer **□**Leukemia □ Lymphoma ☐ Multiple myeloma ☐ Generalized malignancy (metastatic) cancer

Defining Altered Immunocompetence (ACIP)

□ Medication induced
 □ "Traditional" anticancer therapies
 □ Iso-antibody therapy
 □ Immune mediator therapy
 □ Corticosteroids
 □ Specific therapy for solid organ transplant antitumor rejection
 □ Specific therapy for hematopoietic cell transplant

Corticosteroids and Immunosuppression

The amount or duration of corticosteroid therapy needed to increase adverse event risk is not well-defined

- Dose generally believed to be a concern:
 - 20 mg or more/day of prednisone for 2 weeks or longer
 - 2 mg/kg per day or more of prednisone for 2 weeks or longer

Corticosteroids and Immunosuppression(2)

 Does NOT apply to aerosols, topical, alternate-day, short courses (less than 2 weeks), physiologic replacement schedules

Delay live vaccines for at least 1-3 month after discontinuation of high-dose therapy

Vaccination of Immunocompromised Persons Safety:

- Immunocompromised persons are at increased risk of adverse events following live vaccines
- Live vaccines may be administered at least 3 months following termination of chemotherapy (at least 1 month after high-dose steroid use of 2 weeks or more)
- LAIV, MMR, varicella, and rotavirus vaccines may be administered to susceptible household and other close contacts

Vaccination of Immunocompromised Persons

Safety and efficacy

- Anti-tumor necrosis factor inhibitors
 - Generally can treat like steroids
 - Some experts recommend waiting longer than one month after vaccination with live or inactivated vaccines

- Other isoantibodies (e.g. lymphocyte depleting agents)
 - Some experts recommend up to six months

Defining Immunosuppression

"The degree of altered immunocompetence in a patient should be determined by a physician."

Vaccination of Hematopoietic Cell Transplant (HCT) Recipients

- Antibody titers to VPDs decline during the 1-4 years after allogeneic or autologous HCT if the recipient is not revaccinated
- HCT recipients are at increased risk of some VPDs, particularly due to encapsulated bacteria
- Revaccination recommended beginning 6-24 months post-transplant

MMWR 2000;49(RR-10)

Vaccination of HCT Recipients

Inactivated influenza vaccine at least 4-6 months following transplant and annually thereafter

□Inactivated vaccines (DTaP, Td, IPV, PCV13, PPSV23, Hepatitis B, Hib, HPV, MCV4) at 6 months

MMR, varicella, yellow fever vaccines at 24 months if immunocompetent

> Rubin, LG, Levin MJ, Ljungman P., et. Al. 2013 IDSA Clinical Practice Guidelines for Vaccination of the Immunocompromised Host. Clin. Infect. Dis. 2014; 58: e-44-100.



Preventing and Managing Adverse Reactions

Patient name:	Date of birth:	3 %	1	/
		(mo.)	(day)	(yr.)

Screening Questionnaire for Child and Teen Immunization

For parents/guardians: The following questions will help us determine with be given today. If you answer "yes" to any question, it does not necessarily not evaccinated. It just means additional questions must be asked. If a question healthcare provider to explain it.

- 1. Is the child sick today?
- 2. Does the child have allergies to medications, food, a vaccine component, or la
- 3. Has the child had a serious reaction to a vaccine in the past?
- Has the child had a health problem with lung, heart, kidney or metabolic discs (e.g., diabetes), asthma, or a blood disorder? Is heishe on long-term aspirin th
- If the child to be vaccinated is between the ages of 2 and 4 years, has a health provider told you that the child had wheezing or asthma in the past 12 month
- Has the child, a sibling, or a parent had a seizure; has the child had brain or of nervous system problems?
- 7. Does the child have cancer, leukernia, AIDS, or any other immune system pro
- In the past 3 months, has the child taken cortisone, prechisone, other steroid: or anticancer chaps, or had radiation treatments?
- In the past year, has the child received a transfusion of blood or blood produc or been given immune (gamma) globulin or an artiviral drug?
- 10. Is the child/feen pregnant or is there a chance she could become pregnant du the next month?
- 11. Has the child received vaccinations in the past 4 weeks?

Form completed by:

Did you bring your child's immunization record card with you?

It is important to have a personal record of your child's vaccinations. If you don't have heathcare provider to give you one with all your child's vaccinations on it. Keep this no: you every time you seek medical care for your child. Your child will need this important life to enter day care or school, for employment, or for international travel.

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ewe.htm

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Information for Health Professionals about the Screening Questionnaire for Child & Teen Immunization

Are you interested in knowing why we included a certain question on the Screening Questionnaire? If so, nead the information below. If you want to find out even more, consult the references listed at the bottom of this page.

I. Is the child sick today? htteravel

There is no evidence that authilities reduces section efficacy or increases section attents earth (II, 7). However, as a precaution with moderate or severe scalar filesca, all vaccines should be adopted until the literace has imposed. Mid thosases (such as offst media, upper respiratory infections, and distributal are NOT contractications to executation. Dis not withhold vaccination if a person is being artificial earlier of the precision of a person in being artificial earlier.

Does the child have allergies to medications, food, a vaccine component, or latex? [alleration]

History of anaphylactic reaction such as hives (unbody), whereafting or difficulty breathing, or directalizing integration or shock (not fairbing) to a seather component or bits in a contradication to a core seather. Or example, if a person experiences anaphylacis after eating eggs, do not administrate influence vaccine, or if a person has anaphylacis after eating greater, do not administrate results manufacturing (PMP), if the person has anaphylacis after eating (PMP), and exactine (PMP), and exactin

3. Has the child had a serious reaction to a vaccine in the past?

(of reading) History of anaphylactic maction (see question 2) to a previous dose of fractive or vaccine component is a contraind above for subsequent class (1). He tary of enemptiopathy with 7 days following (2017)(ETS) is a contraind above for further doses of perturbation training (2017)(ETS) is a contraind above for further doses of perturbation certaining vaccine. Presculture to DTSF (pint) Halp include the listing (2) without writer all they of a discline, (b) gain or firty operation collapse within 48 hours of a dose, (c) confinence or project 2 or more focus while 48 hours of a dose, and (d) there of 105T (40TC) within 48 hours of a president dose. There are other adverse search and might have occurred following occidents that constitute outside contraind advances or preclations to future doses. Under name, successing occidents that constitute outsides contraind advances or processions to future doses. Under name, when the benefit outwegtes the risk (e.g., during a community portrains) portrains).

4. Has the child had a health problem with lung, heart, kidney, or metabolic disease (e.g., diabetes), asthma, or a blood disorder? Is he/she on long-term aspirin therapy? [JM]

Chicken with any of the health conditions listed above should not be given the intransal, the alternated influence vaccine (LAV). These chicken should be vaccinated with the interfals influence secrets.

If the child to be vaccinated is between the ages of 2 and 4 years, has a healthcare provider told you that the child had wheezing or asthma in the past 12 months? [AM]

Children who have had a wheeling episode within the past 12 months should not be given the live attenuated influence vaccine, instead, these children should be given the inactivated influence vaccine.

Has the child, a sibling, or a parent had a seizure; has the child had brain or other nervous system problem? [Dist.] in long.

THE LANK ANNIAL CITIAT and Titiap are continued could in children who have a history of exceptual party within 7 days following CITIAT An emistal programme insurancing problem in a presculation to the use of DTLAT and Titiap, and a programme insurancing problem in a beaution to the use of DTLAT and Titiap, and a programme with stable reasoning following estimates) smelting and the children with a dentity failure of relations, exceptuals as equal (occapions children with a personal or barely (i.e., parent or sibling) history of estimates generally should not be vaccinated with PMTMS (they should not exceptually through such and to evaccinate with PMTMS (they should not except a failure of the total problems (CRD) is a parentenession with the following () Tig/Titips 6 CRD has occurred within 6 vesids of a latitude contribution of the decision is made to continue exceptually age gap-appropriate Titip invitated of Tid. If no history of prior Titiap, 2) influence vaccine (TM or LAMY): 8 CRD has occurred within 6 vesids of a prior without of the problems of the titip of the total of the prior titian and occurred within 5 vesids of a better occurred to a prior titian and occurred within 10 vesids of the first high this for severe influence complication.

Does the child have cancer, leukemia, AIDS, or any other immune system problem? [Let Note, Note: 10]

Like virus vaccines (e.g., 1949), 1949V, variestis, notavirus, and the infranced live, attenuated influenza secrine (LAVI) are secully contradicated in immunicating promised children. However, there are exceptions. For exemple, 1949 is incommended for apprehensive Half-Interest children who do not have existence of several immunicacypression. Likewise, controllar vaccine should be considered for HAVI interest children with age expected. CDH + T-tyrophocyte personalige at 1955 or greater and may be considered for children age 8 years and older with CDH + T-tyrophocyte counts of greater than or equal to 500 celluly. Interessors prepared children should not receive LAVI. Interts who have been degreesed with severe consisted emmunicatification (SCLII) should not be given a live who excelve, excluding to take to (MV) vaccine. For oldels, consult is ACIF recommendations (A. 5, 6).

In the past 3 months, has the child taken cortisone, prednisone, other steroids, or anticancer drugs, or had radiation treatments? [July WWI, WWI].

Dies virus varatiess (e.g., MHM, MHMM, varientis, LAM) should be postpared until after chemotherapy in long-term high-chair standal therapy has emised. For details and length of lines by postpares, consent the ACP statement (1). To find specific varientation schedules for view out to applicate (boxes marrow transparely potents, see inference 7. LAM can be given only to insultin more program institution ago. 1–49 years.

In the past year, has the child received a transfusion of blood or blood products, or been given immune (gamma) globulin or an antiviral drug? past wwo, wwo; wat;

Contain New strans sections (e.g., UNY, PHPM, PHPMY, variants) may need to be deformed, stepanding on several variables. Consult the most current ACP recommendations or the current Act floot for from a current information on informat between artificial drugs, immune globals or blood product administration and New Year section (1, 7).

10. Is the child/teen pregnant or is there a chance she could become pregnant during the next month? [AN MAIN MAIN MAIN MAIN]

Lies virus vaccioss (e.g., PPVR, PPVRV, varients, UAV) and contrandicated one month before and during programy because of the theoretical risk of virus transmission for the Intro. (1, 6). Secondly active young victimes who manife a few than vaccions should be intimated to practice cantill contrangation for one month following receipt of the vacrine (5, 4). On the ordered grounds, inachelatel policytus vaccine should not be given during programely. Newseer, it may be given if risk of disease is imminent (e.g., travel to endemic area) and immediate protection is needed. Use of Tid or Tidap is not contrandicated in programely. At the providers discretion, is her vaccine may be administrand during the late of 3rd or 3rd threads (5).

II. Has the child received vaccinations in the past 4 weeks?

[LAD, MWD, MWDY, WIX, yellow (mer)]

If the child was given either be, alternated influence vaccine (LAN) or an injectable. Be what vaccine (e.g., 1949, 1949), without, justice there) in the past 4 weeks, they should wast 28 days before mounting another vaccination of the byte fractivated vaccines may be given at the same time or at any spacing interval.

Service.

- 1. CDC. Green's recommendature on removation, at work of green well-published by his bir
- 3. ART: But Stock Dispute of the Committee on Information Disputes at source agreement and
- Table of Nazire Components www.six.gov/access/pine/pithod/flow-bash/appenhas/fl/ emigraph hide-Tyal.
- CDC Meades, manys, and ninetal resource control destinguisher electricism of meades, nitrata, and congressed mixeds, quadrature and method of manys. 1999;67:1790–17(30):8)
- CDC Processor of seconds for communities of the Advisory Committee on the consistent Plantainer, 895WS 2007, 16-198-43.
 CDC Processor and Committee of Manager Recommendations of ACP as seconds gradual professional committee.
- imide/amerikani J. CDC. Lampi for Coldelan la promitig appeticate aldelan prong frontanata der sell templet mennet. MMM 300-4930-10, von ets gerkenmeljelektion bakis, bei en en gill
- CDC, Pristor to reader: Person RCD reconstitute for enabling programs after money a robotic containing account AMMM 2001-10 (AV).
- CDC Transfers of participal belows and distribute arrang preparate and postparties recover and time relate. Personnel dation of the ACP MARK 2006. 37 (43-4).

Benefit and Risk Communication

 Opportunities for questions should be provided before each vaccination

- Vaccine Information Statements (VISs)
 - Must be provided before each dose of vaccine
 - Public and private providers
 - Available in multiple languages

Your Source for VISs www.immunize.org

immunize.org | vaccineinformation.org | hepprograms.org | izcoalitions.org

Search

Immunization Action Coalition

Vaccination Information for Healthcare Professionals

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VISS

► IAC Home

VIS Home

- VISs by Vaccine
- VISs by Language
- VISs Alphabetical
- How to Use VISs
- Other VIS Sources
- Alternative Formats
- Michigan VISs
- Free Print Materials

Vaccine Information Statements

VISs by language

English	Chinese	Hokano	Polish	Somali
Amharic	Croatian	Italian	Portuguese	Spanish
Arabic	Farsi	Japanese	Punjabi	Tagalog
Armenian	French	Karen	Romanian	Thai
Bengali	German	Korean	Russian	Turkish
Bosnian	Haitian Creole	Laotian	Samoan	Urdu
Burmese	Hindi	Marshallese	Serbo-Croatian	Vietnamese
Cambodian	Hmong			









Communicating with Parents

For providers:

- If provider recommends it, parents more likely to follow
- Ask, acknowledge, and advise
- Start at prenatal visit, develop trust
- Offer reliable resources
- Know the science
- Do not get defensive

Communicating with Parents

What parents want:

- Delayed vs. alternate schedules
- Facts and statistics
- Trust good websites
- Do not want to be talked down to
- Unbiased, non-coercive, credible, nonjudgmental information

Childhood Immunization Schedule and Safety

Institute of Medicine - Mission

- Review scientific findings and stakeholder concerns related to the safety of the recommended childhood immunization schedule
- Identify potential research approaches, methodologies, and study designs that could inform this question
- Issue a summary report

Findings

- IOM committee finds no evidence that the schedule is unsafe
- Following the complete childhood immunization schedule is strongly associated with reducing vaccine-preventable diseases
- Committee calls for continued study of the immunization schedule using existing data systems

www.iom.edu/childimmunizationschedule

Syncope



Vasovagal reaction

Can occur after vaccination or any other anxiety provoking activity

Syncope

- Since 2001, 666 reports of syncope reported to VAERS
- 80% of reports occur in the first 15 minutes of vaccination
- Increasing reports since 2005, coincident with vaccines recommended for adolescents

Syncope and Head Injury

- Concerning public health issue is head injury following syncope
- 76% of VAERS reports of head injury following syncope occur in adolescents

Syncope and CDCs General Recommendations

- Adolescents and adults should be seated during vaccination
- Consider a 15 minute waiting period following vaccination of adolescents

CDC Vaccines and Immunization Resources

- Questions? E-mail CDC
 - nipinfo@cdc.gov or www.cdc.gov/cdcinfo

Website

www.cdc.gov/vaccines

□ HCP

www.cdc.gov/vaccines/hcp

General Recommendations

http://www.cdc.gov/mmwr/preview/mmwrhtml/rr6002a1.htm

Vaccines, 6th edition, eds. Plotkin, Orenstein, Offit